

KitchenSync

A Pantry and Recipe Companion



Milestone 3

Milestone 3 Objectives

Inventory Management System ~ 90%

Recipe Organizing System ~ 80%

Basic GUI ~ 90%

Cloud DB ~ 95%

Meal Planner ~ 60%

Admin Backend ~ 20%

Inventory System

Key Highlights

1. Receipt Scanning Working on Walmart/Target Receipts:
 - UPC Codes are extracted into a List
 - Each Item is checked against OpenFoodFacts for key details such as name and quantity
 - Each Item then goes through the user adding where it is in their kitchen along with the expiration date
 - Rejected items are then shown to the user
2. Challenges with Receipt Scanning:
 - Receipts without UPC codes make it harder to get the items quantity
 - Possible work around is simply to only extract the name and the user can input the quantity as well

Recipe Organizing System

Key Highlights

1. Recipe Cards

- Each recipe is given its own recipe card which acts as a container for the information in a recipe

```
public Recipe(int id, String name, String category, String collection, String description, int prepTime, int passiveTime, int cookTime, int complexity, int servings,  
| | | String[] tags, String[] ingredients, String[] specialEquipment, String[] steps) {}
```

- Complexity Ratings -> Based on number of ingredients and steps
- Local Storage Using Json files

Basic GUI

Key Highlights

1. Created a calendar with functionality akin to Google Calendar for Meal Planning
2. Recipe Cards + Ingredient Cards
 - a. Each act as a container for the respected information for each

Challenges

1. Linking the images of recipes and the ingredients to the data of each
 - a. Solution is to use the id's for each and store the recipes at that index

Cloud DB for Recipe Sharing

Key Highlights

1. Fixed the database authentication errors we have been having
2. Seeded with recipe entries

Items returned (1)  Actions ▼ Create item

< 1 > |  

<input type="checkbox"/>	Recipe (<i>String</i>)	▼	0	▼
<input type="checkbox"/>	<u>0</u>		Potato	

Meal Planner

Key Highlights

1. Users can add meals based on their recipes
2. Time Blocks are added based on the recipe information that can be moved around
3. Day, Week, Month Views created to allow a user to better see and plan their meals

Admin Backend

Key Highlights

- Recipes and inventory that user inputs is saved onto local storage using Json Files
- Queries into the user accounts through AWS is possible primarily looking at their names and if the account information is valid

Progress Matrix of Milestone 3

Task	Completion %	Tyler Son	Chris Nederhoed	David Tran	To do
Inventory Management System	90%	20%	70%	30%	<ul style="list-style-type: none">• Improve Accuracy Of Receipt Scanner
Recipe Organizing System	80%	20%	50%	20%	<ul style="list-style-type: none">• Recipe Searching with filters• Review System• Nutrition Breakdown
Basic GUI	90%	0%	100%	0%	<ul style="list-style-type: none">• Notification Center• User Profile• User Settings

Progress Matrix of Milestone 3

Cloud DB	95%	100%	0%	0%	<ul style="list-style-type: none">• Seeding initial recipes• Connect To Community Recipe Page
<i>Meal Planner</i>	60%	0%	100%	0%	<ul style="list-style-type: none">• Add Meal Form• Nutritional Break Down
Admin Backend	20%	0%	0%	100%	<ul style="list-style-type: none">• User Accounts• Backend Manager

Milestone 4

Task	Tyler Son	David Tran	Chris Nederhoed
User Accounts		Create user account creation process, and link user accounts to AWS DB	
User Sub Components (Inbox, Settings, Profiles)	Allows users to customize their settings such as “light mode” vs “dark mode” and users to include profile pictures.		
Frontend Facelift			Polish front end UI/UX making things look more professional while adhering to good principles. Implement window scaling.

Task	Tyler Son	David Tran	Chris Nederhoed
Accepted Receipt Expansion			Use machine learning to parse hard to read user images and get the information from them
Shopping Companion	Create a list creation algorithm based on a user shopping list and preferences.	Get item prices from websites and/or api's.	
Feedback/Review System	Create attributes that store user feedback for recipes.		